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Fig. 1

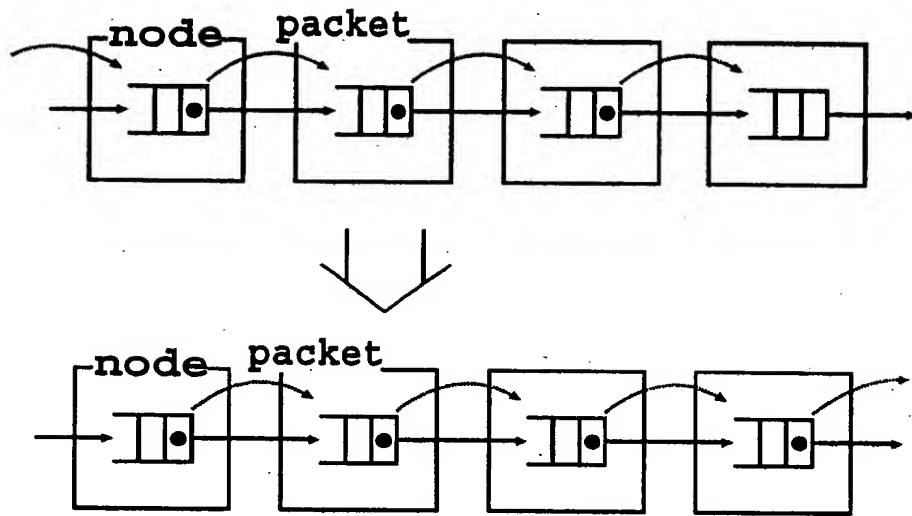


Fig. 2

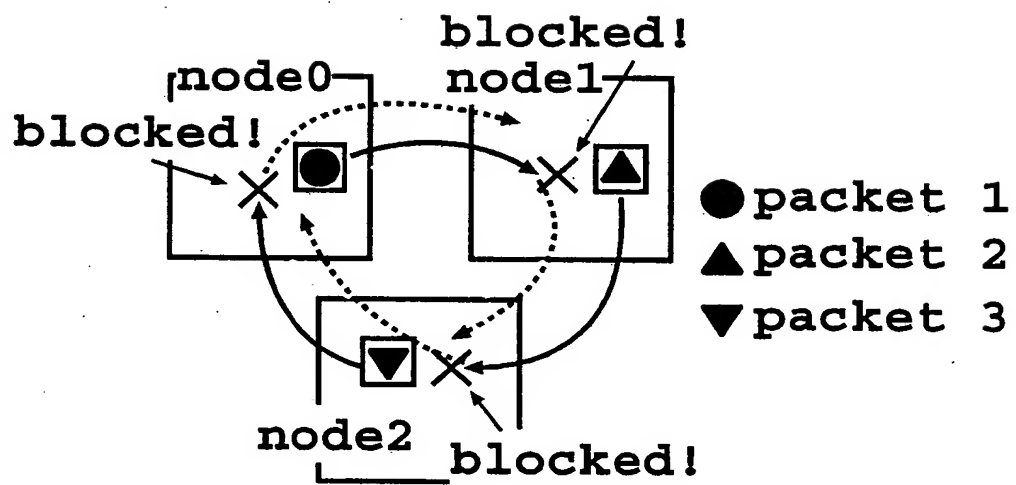


Fig. 3

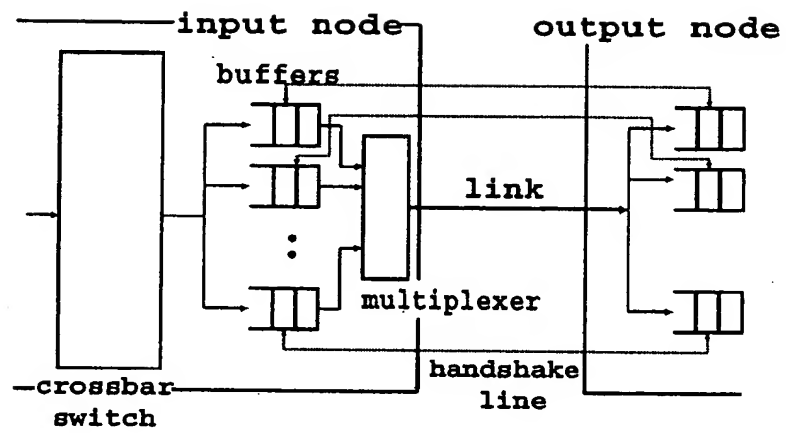


Fig. 4

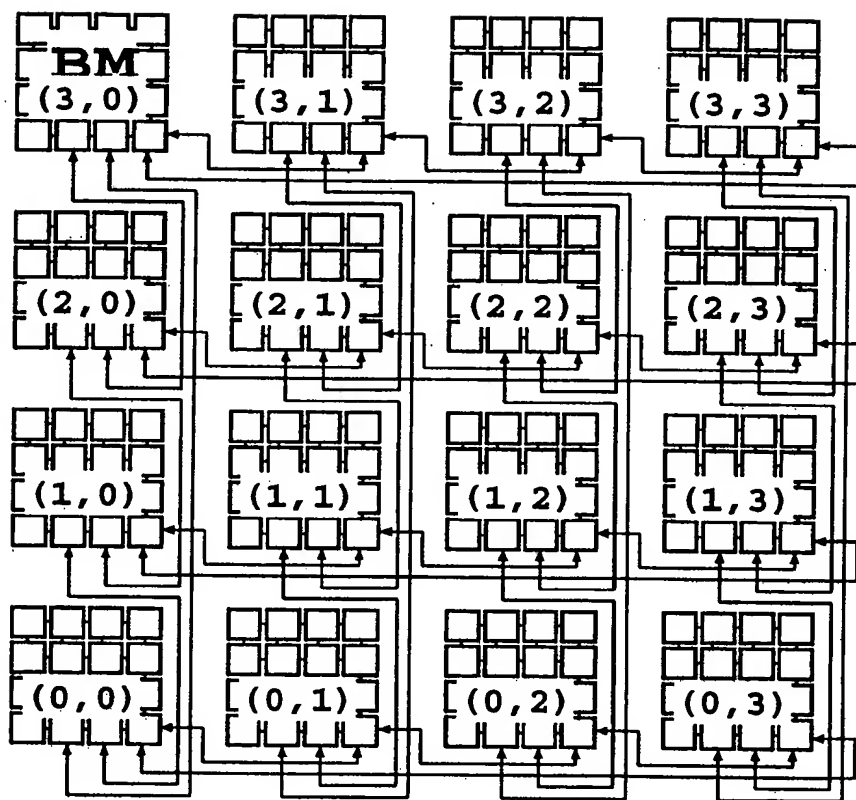


Fig. 5

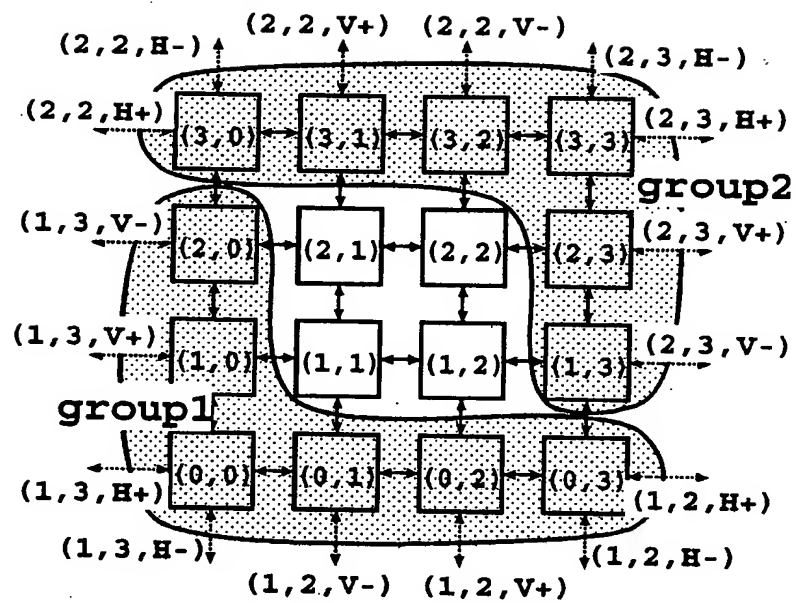


Fig. 6

Routing Algorithm for a Level-L TESH:

```

Routing(s,d);
source;s={s2L-1,s2L-2,...,s0}; destination;d={d2L-1,d2L-2,...,d0};
tag;t2L-1,t2L-2,...,t0; group;g;

for i = 2L-1:2;
    if (di-si+2m) mod 2m <= 2m/2 then
        routedir = plus; ti= (di-si+2m) mod 2m;
    else routedir = minus; ti= 2m- (di-si+2m) mod 2m; endif;

    g = get_group_number(s,d,routedir);

    while(ti!= 0) do
        if i is even number then
            outlet_nodex= outlet_x(g,i/2+1,H,routedir);
            outlet_nodey= outlet_y(g,i/2+1,H,routedir);endif;
        if i is odd number then
            outlet_nodex= outlet_x(g,i/2+1,V,routedir);
            outlet_nodey= outlet_y(g,i/2+1,V,routedir);endif;
        BM_routing(outlet_nodex, outlet_nodey);
    } (a)

    if routedir = plus then send packet to next BM;
    else send packet to previous BM; endif; } (b)

    ti= ti- 1;
endwhile;
endfor;

BM_routing(d1,d0); —————→ (c)
end.

BM_routing(dx, dy);
source;sx,sy; destination;dx,dy;
tag;tx,ty;

tx= dx- sx;
ty= dy- sy;
while(ty!= 0) do
    if ty> 0 then move packet to upper node; ty= ty- 1; endif;
    if ty< 0 then move packet to lower node; ty= ty+ 1; endif;
endwhile;
while(tx!= 0) do
    if tx> 0 move packet to right node; tx= tx- 1; endif;
    if tx< 0 move packet to left node; tx= tx+ 1; endif;
endwhile;
end.

```

Fig. 7

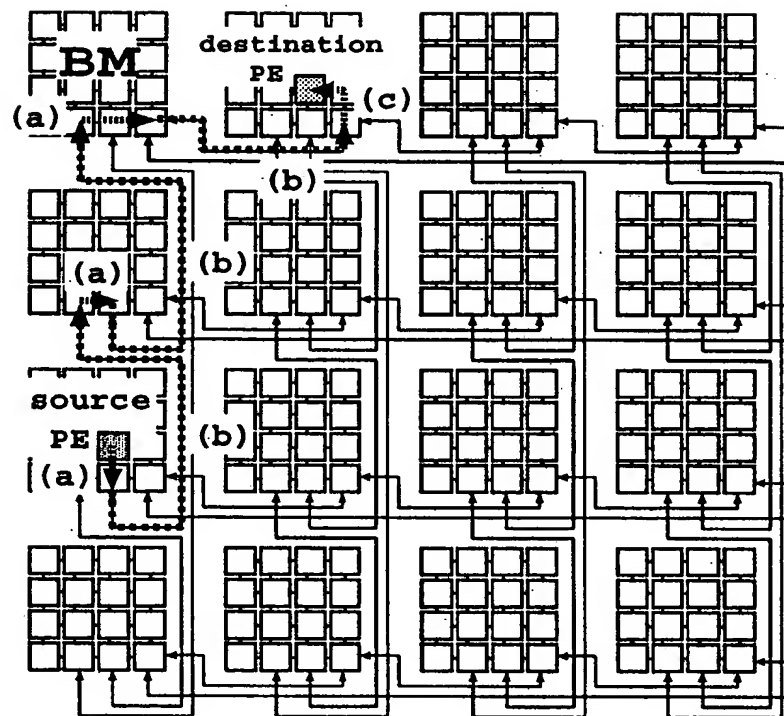


Fig. 8

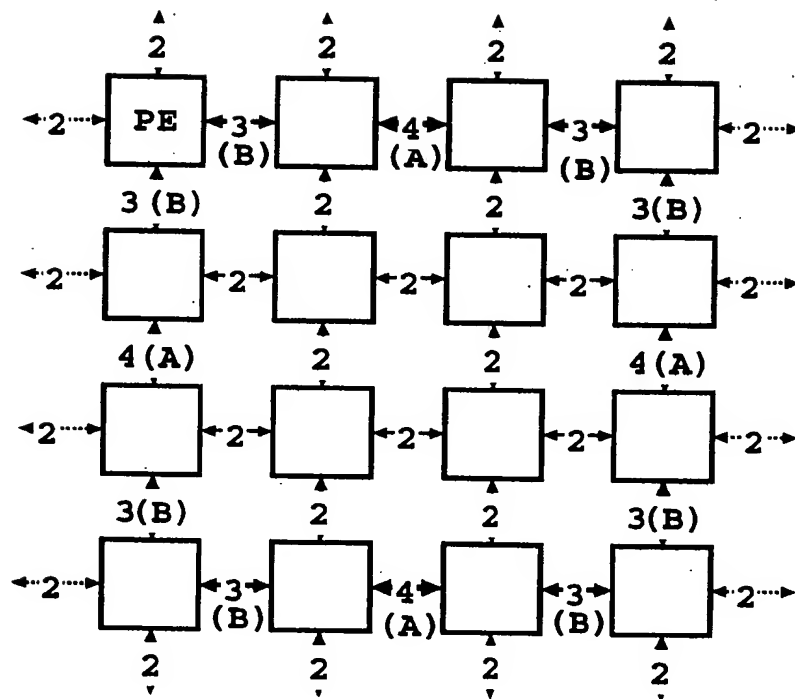


Fig. 9

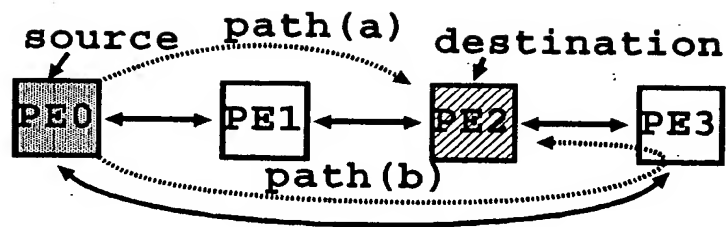


Fig. 10

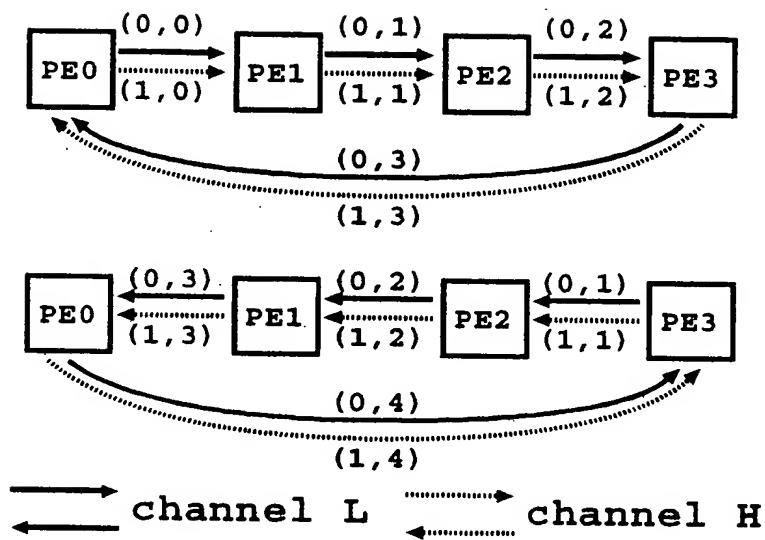


Fig. 11

